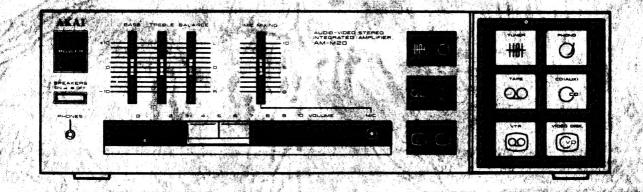
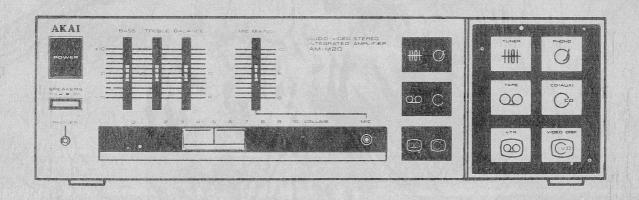
AKAI SERVICE MANUAL



STEREO INTEGRATED AMPLIFIER

MODEL AM-M20

AKAI SERVICE MANUAL



STEREO INTEGRATED AMPLIFIER

MODEL AM-M20

ABBREVIATIONS FOR SERVICE MANUAL MODEL AM-M20

ABBREVIATIONS	EXPLANATION
AMP	AMPlifier
AC .	Alternate Current
CD	Compact Disc (Player)
DC	Direct Current
EIAJ	Electronic Industries Association of Japan
FTC	Federal Trade Commission
GND	GrouND
IHF	Institute of High Fidelity (Standard)
MIC	MICrophone
OP-AMP	OPerational-AMPlifier
PCB	Printed Circuit Board
REC	RECord
RIAA	Recording Industry Association of America
SW	SWitch



STEREO INTEGRATED AMPLIFIER MODEL AM-M20

SECTION 1	SERVICE MANUAL 3	3
SECTION 2	PARTS LIST 9)

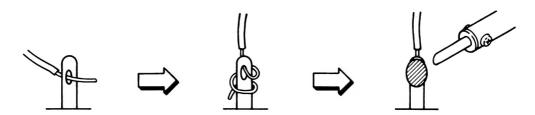
SAFETY INSTRUCTIONS

SAFETY CHECK AFTER SERVICING

Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 Mohms, but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for \boxed{C} or \boxed{A} , specified insulation resistance should be more than 2.2 Mohms (ground terminals, microphone jacks, headphone jacks. line-in-out jacks etc.)

PRECAUTIONS DURING SERVICING

- Parts identified by the △ symbol parts are critical for safety.
 Replace only with parts number specified.
- 2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with specified replacements.
 - Examples: RF .converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
- 3. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- 4. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers (Insulating Barriers)
 - 4) Insulation sheets for transistors
 - 5) Plastic screws for fixing microswitch (especially in turntable)
- 5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



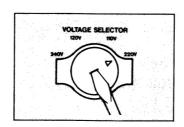
- 6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
- 7. Check that replaced wires do not contact sharp edged or pointed parts.
- 8. Also check areas surrounding repaired locations.
- 9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

VOLTAGE CONVERSION

Models for Some Countries are not equipped with this facility, Each machine is preset at the factory according to destination, but some machines can be set to 110V, 120V, 220V, or 240V as required.

If your machine's voltage can be converted:

Before connecting the power cord, turn the VOLTAGE SELECTOR located on the rear panel with a screwdriver until the correct voltage is indicated.



SECTION 1

SERVICE MANUAL

TABLE OF CONTENTS

I.	SPECIFICATIONS
	DISMANTLING OF UNIT
III.	CONTROLS
IV.	PRINCIPAL PARTS LOCATION
V.	ADJUSTMENT
	PC BOARD TITLE AND IDENTIFICATIONS

For basic adjustments, measuring methods, and operating principles refer to GENERAL TECHNICAL MANUAL.

I. SPECIFICATIONS

		8 ohms	6 ohms
RATED POWER OUTPUT	20Hz to 20kHz	40W/0.1%	40W/0.15%
POWER OUTPUT (BY FTC)	20Hz to 20kHz	42W/0.1%	42W/0.15%
	1kHz	43W/0.1%	45W/0.15%
FRENCH NORMAL (8 ohms)	63Hz to 12.5kHz	42W/0.7%	
	1kHz	44W/0.7%	
MUSIC POWER (both channel	s)	180 W	
POWER BANDWIDTH (IHF –	3dB, 8 ohms)	10Hz to 50kHz (0	0.5%)
S/N (IHF-A)	PHONO	72dB	
	AUX	90dB	
RESIDUAL NOISE (8 ohms)		0.5mV	
CHANNEL SEPARATION (IH	(F,1kHz)	55dB	
DAMPING FACTOR (1kHz, 8	ohms)	30	
REQUIRED SPEAKER IMPEI	DANCE	6 to 16 ohms	
PRE AMPLIFIER SECTION INPUT SENSITIVITY/IMPED.	ANCE	0.5 1/451 1	
INPUT SENSITIVITITIMITED	PHONO	2.5mV/47kohms	
	AUX	150mV/47kohms	
	TUNER	150mV/47kohms	
	TAPE	150mV/47kohms	
OUTPUT LEVEL/IMPEDANCE TAPE REC		150mV/1kohms	
FREQUENCY RESPONSE			
PHONO (riaa	deviation)	±0.5dB	
TUNER, AU		5Hz to 100kHz (-	-3dB)
VTR		5Hz to 30kHz (-:	3dB)
TONE CONTROL			
	BASS	±8dB	
	TREBLE	±8dB	
PHONO MAX. INPUT LEVEL		150mV	
POWER REQUIREMENTS		120V, 60Hz for U	JSA & Canada
		220V, 50Hz for E	Europe except UK
		240V, 50Hz for U	JK & Australia
		1100//1200//2200	1/240M FOLLS (OLLS somewhile for other com-
		110V/120V/220V	1/240V, 50Hz/60Hz convertible for other cour

 $350(W) \times 100(H) \times 254(D) \text{ mm}$

 $(13.8 \times 3.9 \times 10 \text{ inches})$

5.7kg (12.5 lbs)

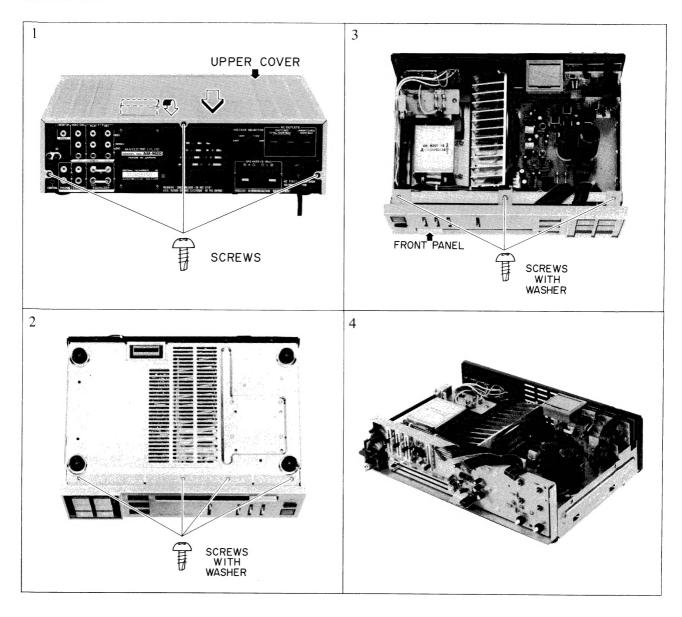
DIMENSIONS

WEIGHT

^{*} For improvement purposes, specifications and design are subject to change without notice.

II. DISMANTRING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.



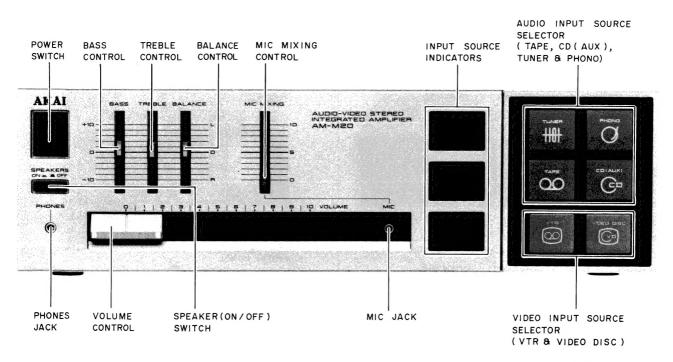


Fig. 3-1 Front View

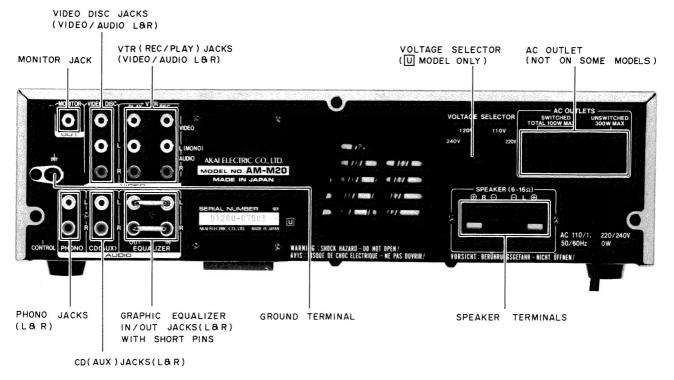


Fig. 3-2 Rear View

IV. PRINCIPAL PARTS LOCATION

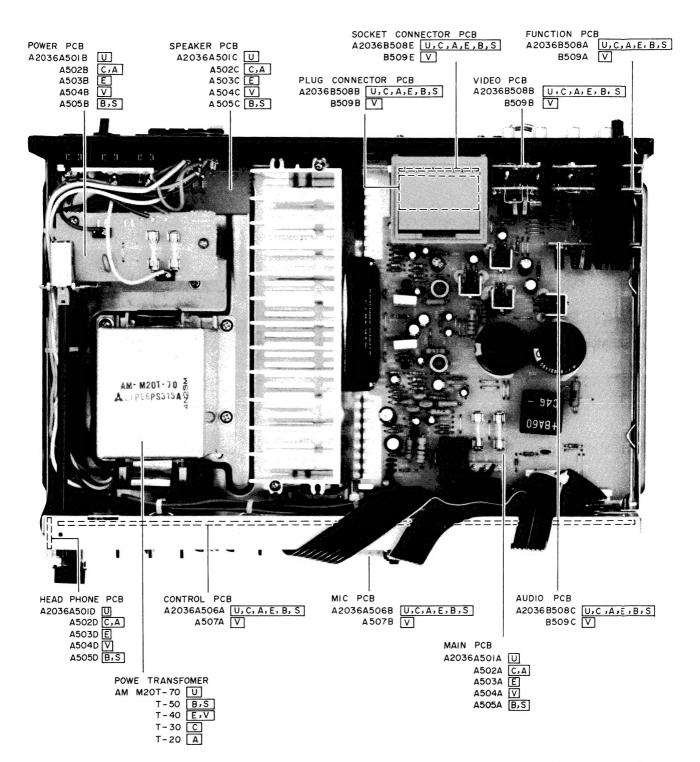


Fig. 4-1 Top View

V. ADJUSTMENT

No Adjustment is Necessary for this model.

VI. PC BOARD TITLE AND IDENTIFICATIONS

PC BOARD T	TLE	PC BOARD NUMBER	REMARKS
MAIN	PC BOARD	A2036A501A	U
		502 A	$\overline{C,A}$
		503 A	E
		504 A	V
		505 A	B, S
POWER SW	PC BOARD	A2036A501B	U
		502B	$\overline{C,A}$
		503B	E
		504B	V
		505B	B, S
SPEAKER	PC BOARD	A2036A501C	U
		502C	C, A
		503C	E
		504C	V
		505C	B, S
HEAD PHONE	PC BOARD	A2036A501D	U
		502D	C, A
	- Application of the state of t	503D	E
	P. Carlotte	504D	V
		505D	B, S
CONTROL	PC BOARD	A2036A506A	U, C, A, E, B, S
		507A	V
MIC	PC BOARD	A2036A506B	U, C, A, E, B, S
		507B	· V
FUNCTION	PC BOARD	A2036B508A	U, C, A, E, B, S
		509A	V
VIDEO	PC BOARD	A2036B508B	U, C, A, E, B, S
		509B	V
AUDIO	PC BOARD	A2036B508C	U, C, A, E, B, S
		509C	V
PLUG CONNECTOR	PC BOARD	A2036B508D	U, C, A, E, B, S
The second secon		509D	V
SOCKET CONNECTOR	PC BOARD	A2036B508E	U, C, A, E, B, S
		509E	V

SECTION 2

PARTS LIST

TABLE OF CONTENTS

RECOMMENDED SPARE PARTS	. 11
1. PC BOARD BLOCK	. 12
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3. CONTROL PC BOARD	. 13
4. FUNCTION PC BOARD	. 13
5. VIDEO PC BOARD	. 13
6. AUDIO PC BOARD	13
7. SPEAKER PC BOARD	13
8. MIC PC BOARD	13
9. HEAD PHONE BOARD	13
10. POWER SW PC BOARD	13
11. ASSEMBLY BLOCK	15
12. FINAL ASSEMBLY BLOCK	15
INDEX	

Resistor and Capacitor which is not listed in this parts list, please refer to COMMON LIST FOR SERVICE PARTS.

ATTENTION

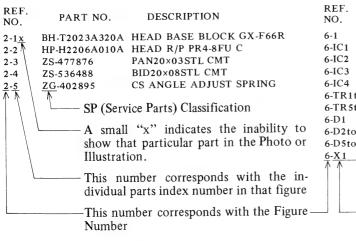
- 1. When placing an order for parts, be sure to list the parts no. model no., and description of each part. If any of this information is omitted, there are instances in which parts cannot be shipped or the wrong parts will be
- 2. Please be careful not to make a mistake in the parts no. If the parts no. is in error, a part different from the one ordered may be delivered.
- 3. Because part numbers and part definitions and supply in the Preliminary Parts List may have been the subject of changes, please use this parts list for all future reference.

HOW TO USE THIS PARTS LIST

- 1. This Parts List shows those parts which are considered necessary for repairs. Other parts, such as resistors and capacitors, are shown in the "Common List for Service Parts" from which these parts should be selected and parts.
- 2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important
- 3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
- 4. How to read the parts list
 - a) Mechanism Block

b) P.C Board Block

2. HEAD BASE BLOCK



6. SYS. CON. P C BOARD BLOCK

REF. NO.	PART NO.	DESCRIPTION
6-1	BA-T2034A070A	PC SYS CON BLK GX-F44R
6-IC1	EI-324536	IC HD14049BP
6-IC2	EI-336801	IC MB8841-564M
6-IC3	EI-331661	IC SN7405N
6-IC4	EI-336725	IC M54527P
6-TR1to4	ET-200985	TR 2SC2603 F,G
6-TR5to28	ET-554657	TR 2SA733A P,Q
6-D1	ED-318292	D SILICON H 1S2473T-77 T26
6-D2to4	ED-308952	D GERMA V 1K34A-LR F07
6-D5to10	ED-318292	D SILICON H 1S2473T-77 T26
6-X 1	EI-318384	OSC X'TAL NC-18C
<u> </u>		3.579545MHZ
	These refe	e Parts) Classification rence symbols correspond with t symbols in the Schematic

5. The kind of part and its installation position can both be determined by the Part Number. To determine where a part number is listed, utilize the Parts Index at the end of the Parts List. It is necessary first of all to find the Part Number. This can be accomplished by using the Reference Number listed at the right of the part number in the Parts Index.

WARNING

A INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS

AVERTISSEMENT

⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ **FABRICANT**

RECOMMENDED SPARE PARTS

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

```
REF. PART NO.
                 DESCRIPTION
 1 N BT-356638 ★ TRANS POWER AM-M20T-20 [A]
 2 N BT-356637 ⚠ TRANS POWER AM-M20T-30 [C]
 3 N BT-356639 	⚠ TRANS POWERAM-M20T-40 [E,V]
 4 N BT-356640 A TRANS POWER AM-M20T-50 [B,S]
 5 N BT-356636 ⚠ TRANS POWER AM-M20T-70 [U]
     ED-349656 D LED AY5505S
     ED-350748 D SILICON DBA60C-K15
 8
     ED-348990 D SILICON H DS446
     ED-301911 D SILICON H DS448
 9
10
     ED-344280 D SILICON H GMA-01-FY2 F05
11
     ED-346613 D ZENER H HZ11 C3
12
     ED-343996 D ZENER H HZ12 B1
1.3
     ED-306320 D ZENER H HZ15 2
     ED-329449 D ZENER H HZ18 3
15
     ED-331198 D ZENER H HZ3 A1
16
     ED-337268 D ZENER H HZ5 A1
17
     ED-306824 D ZENER H HZ7L B
     18
19
20
     21
     22
     23
24 N EI-354401 IC BU4066B
2.5
     EI-353852
             IC LA7016
26 N EI-356656
             IC LC4066
27 N EI-356655
             IC LC7815
28
     EI-337228
             IC M5218L0
29
     EI-349719
             IC M5218P
30
     EI-344764
             IC M5218P-21
31 N EI-356652
             IC STK4873
     EJ-351021 SOCKET CONNECTER M1701 12P
32
33
     EJ-356521 SOCKT CONNECTER-B M1701-A 12P
     EQ-337159 RELAY POW G4Z-2282P 2N0 24V
34
35
     ER-328278 	⚠ R FUSE ERD2FC 1/4W 10R0G
36
    37 N ES-356631 SW PUSH ESB62772 2-02-02S
    ES-347966 SW PUSH ESB-649 01-2-2N
39
    ES-337902 SW PUSH SDLD1P002 01-1
40
    ES-349474 SW TACT SKHHAD035A
41
    ET-308472 TR 2SA1115 E,F,G
42 N ET-353899 TR 2SA1317 S,T,U
43 N ET-201800 TR 2SA970 BL
    ET-322598 TR 2SB632K E,F
44
    ET-307195 TR 2SC2240 GR,BL
45
46
    ET-308141
             TR 2SC2603 G
47 N ET-353898 TR 2SC3330
48
    ET-349081 TR 2SC3383 S,T
49
    ET-310148 TR 2SD612K E,F
50
    ET-200986 TR 2SD863-V8 F
51 N EV-356632 VR SLIDE 100P2WV0B A104
    EV-349402 VR SLIDE 30P1SV0C B503
53 N EV-356633 VR SLIDE 30P2SV0F C104
    EV-349655 VR SLIDE 30P2SV0E MN104
```

"NOTE" N: New Parts

SYMBOL FOR DESTINATION

[A]: AAL (U.S.A.)
[B]: UK (England)
[C]: CSA (Canada)
[E]: CEE (Europe)
[S]: SAA (Australia)
[U]: U/T (Universal Area)
[V]: VDE (West Germany)

1. PC BOARD BLOCK

REF. NO.	PART NO.	DESCRIPTION
1-1A	BA-A2036A020A	PC MAIN BLK AM-M20 (U)
1-1B	BA-A2036A020B	PC MAIN ELK AM-M20 (C,A)
1-1C	BA-A2036A020C	PC MAIN BLK AM-M20 (E)
1-1D	BA-A2036A020D	PC MAIN BLK AM-M20 (V)
1-1E	BA-A2036A020E	PC MAIN BLK AM-M20 (B,S)
1-2A	BA-A0036A040A	PC FUNCTION BLK AM-M20 (U)
1 2.1	2.1.1.0000	[EXCEPT V]
1-2B	BA-A2036A040B	PC FUNCTION BLK AM-M20 (V) [V]
1-3A	BA-A2036A040A	PC CONTROL BLK AM-M20 (U)
1 0		[EXCEPT V]
1-3B	BA-A2036A030B	PC CONTROL BLK AM-M20 (V) [V]

NOTE: (1) PC MAIN BLK consists of following PC BOARDS.

- · MAIN PC BOARD
- · SPEAKER PC BOARD
- HEAD PHONE PC BOARD
- POWER SW PC BOARD
- (2) PC FUNCTION BLK consists of following PC BOARDS.
 - FUNCTION PC BOARD
 - · VIDEO PC BOARD
 - · AUDIO PC BOARD
- (3) PC CONTROL BLK consists of following PC BOARDS.
 - · CONTROL PC BOARD
 - MIC PC BOARD

2. MAIN PC BOARD

_,		
REF. NO.	PART NO.	DESCRIPTION
	MAIN PC B	OARD
2-IC201	EI-356652	△ IC STK4873
	ET-307195	
2-TR202		,
	ET-353898	TR 2SC3330
2-TR204	ET-200986	TR 2SD863-V8 F
2-TR205	ET-310148	⚠ TR 2SD612K E,F
	ET-322598	↑ TR 2SB632K E,F
	ET-310148	↑ TR 2SD612KE,F
	ET-322598	↑ TR 2SB632 K E,F
	ET-353899	△ TR 2SA1317 S,T,U TR 2SA970 BL
2-1 K210 2-D201	ET-201800 ED-301911	D SILICON H DS448
2-D201 2-D202,	LD-301911	D SILICON II D3440
D203	ED-348990	D SILICON H DS446
2-D204		D ZENER H HZ5 A1
2-D205	ED-301911	D SILICON H DS448
2-D206	ED-348990	D SILICON H DS446
2-D207	ED-329449	△ D ZENER H HZ18 3
2-D208	ED-306320	D ZENER H HZ15 2
2-D209	ED-343996	⚠ D ZENER H HZ12 B1
2-D210	ED-346613	D ZENER H HZ11 C3
2-D211 2-D212	ED-306824 ED-350748	D ZENER H HZ7L B ⚠ D SILICON DBA60C-K15
2-D212 2-L1	EO-338420	COIL FIX 2 FL12R202E 202K [V]
2-L1 2-L2,L3	EO-336934	COIL FIX 1 LALO3KH 2R2M [V]
2-L201	EO-337878	COIL FIX 2 201AK-007 2R2K
	EQ-337159	⚠ RELAY POW G4Z-2282P 2N0 24V
2-FR27	ER-328278	⚠ R FUSE ERD2FC 1/4W 10R0G
2-R206		⚠ R OMF H S10 FS RSM 1/2W 332 J
2-R207		⚠ R OMF H S10 FS RSM 1/2W 102 J
2-R208		↑ R FUSE ERD2FC S10 1/4W 5600G
2-R209 2-R210	ER-200746 ER-347610	⚠ R FUSE ERD2FC 1/4W 1000G R CT P F09 PLATE 3W R22K
2-R210 2-R213	ER-352651	R OMF H S ₁ 5 FS 1W 4R7J
2-R214	ER-337754	R OMF H S15 FS 1W 100J
2-R218	ER-333067	R OMF H S20 FS 2W 821J
2-R222	ER-347962	R OMF H S15 FS 1W 152J
2-R224	ER-356747	⚠ R OMF H S15 FS 1W 820J
2-R225	ER-358022	⚠ R OMF H S20 FS 2W 820J
2-R226	ER-328082	R CB H S10 FS RDS 1/4W 332J
2-R228		⚠ R CB H S10 FS RDS 1/4W 101J
2-R229 2-R231	ER-323075 ER-322591	R CB H S10 FS RDS 1/4W 472J
2-R231 2-R232	ER-658034	R CB H S10 FS RDS 1/4W 101J ⚠ R OMF H FS 2W 221J
	ER-328082	R CB H S10 FS RDS 1/4W 332J
2-R236	ER-323075	R CB H S10 FS RDS 1/4W 472J
2-R243	ER-322591	⚠ R CB H S10 FS RDS 1/4W 101J
2-C215	EC-334012	C EC V CUT NP SM 221M 6.3DC
2-C219	EC-343393	⚠ C EC V CUT SM 103M 50.0DC
2-C222	EC-343393	⚠ C EC V CUT SM 103M 50.0DC
2-C225	EC-326583	C MMY V CUT CF921 473K 400 DC
2-J1	EJ-336905	PIN J AJC-035-ACB P 4P
2-J2 2-J9	EJ-356651	PHONE J HSJ1011-01-510
2-19	EJ-336905	PIN J AJC-035-ACB P 4P
	ASSEMBLY	BLOCK
2-F3A	EF-200952	↑ FUSE TSC A 250V 6.30A [U]
2-F3B	EF-346115	↑ FUSE TSC 125V 6.30A [C,A]
2-F3C	EF-249851	⚠ FUSE SEMKO T 5.00A 250V
2 544	EE 200053	[E,V,B,S]
2-F4A 2-F4B	EF-200952 EF-346115	△ FUSE TSC A 250V 6.30A [U] △ FUSE TSC 125V 6.30A [C,A]
2-F4C	EF-249851	△ FUSE 15C 125V 6.30A [C,A] △ FUSE SEMKO T 5.00A 250V [E, V,B,S]
	17001	- 555 551110 1 5.00A 250V [E, V,D,S]

3. CONTROL PC BOARD

REF. NO.	PART NO.	DESCRIPTION
3-IC101,	•	
IC102	EI-337228	IC M5218L0
3-TR101	ET-349081	TR 2SC3383 S,T
3-TR102	ET-308141	TR 2SC2603 G
3-D101		
to D106	ED-349656	D LED AY5505S
3-SW101		
to SW104	ES-349474	SW TACT SKHHAD035A
3-SW105,		
SW106	ES-347966	SW PUSH ESB-649 01-2-2 N
3-VR101	EV-349402	VR SLIDE 30P1SV0C B503
3-VR102	EV-356632	VR SLIDE 100P2WV0B A104
3-VR103	EV-349655	VR SLIDE 30P2SV0E MN104
3-VR104	,	
VR105	EV-356633	VR SLIDE 30P2SV0F C104

4. FUNCTION PC BOARD

REF. NO.	PART NO.	DESCRIPTION
4-IC1	EI-344764	IC M5218P-21
4-IC2	EI-349719	IC M5218P
4-IC3	EI-356655	IC LC7815
4-IC4	EI-354401	IC BU4066B
4-TR1	ET-308472	TR 2SA1115 E,F,G
4-TR6		
to TR12	ET-308141	TR 2SC2603 G
4-D1		
to D3	ED-301911	D SILICON H DS448
4-D4	ED-344280	D SILICON H GMA-01-FY2 F05
4-D6		
to D9	ED-344280	D SILICON H GMA-01-FY2 F05
4-D10	ED-331198	D ZENER H HZ3 A1
4-L4,L5	EO-336934	COIL FIX 1 LAL03KH 2R2M [V]
4-R1,R2	ER-200939	⚠ R CB H S10 FS RDS 1/4W 181J
4-R8	ER-200939	⚠ R CB H S10 FS RDS 1/4W 181J
4-R22	ER-200939	⚠ R CB H S10 FS RDS 1/4W 181J
4-C10	EC-344157	C DOUBLE LAYER 473Z 5.5DC

5. VIDEO PC BOARD

REF. NO.	PART NO.	DESCRIPTION
5-IC7 5-TR2	EI-353852	IC LA7016
to TR5	ET-308141	TR 2SC2603 G
5-D5	ED-301911	D SILICON H DS448
5-L6		
to L8	EO-336934	COIL FIX 1 LAL03KH 2R2M [V]
5-R56,		
R57	ER-322591	R CB H S10 FS RDS 1/4W 101J
5-R71	ER-316802	R CB H S10 FS RDS 1/4W 471J
5-J2	EJ-356658	PIN J 1T-31K0425 10P

6. AUDIO PC BOARD

REF. NO.	PART NO.	DESCRIPTION

6-IC5,IC6 EI-356656 IC LC4066

7. SPEAKER PC BOARD

REF. NO.	PART NO.	DESCRIPTION
		COIL BALUN [V]

8. MIC PC BOARD

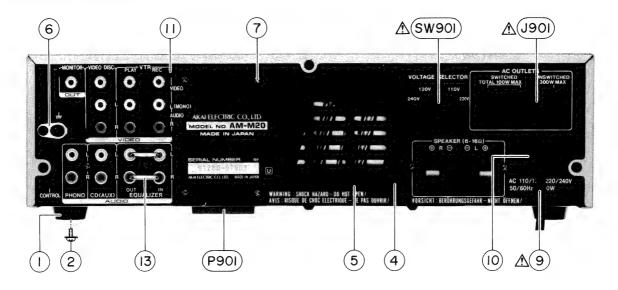
REF. NO.	PART NO.	DESCRIPTION
8-J101 8-L1		PHONE J HSJ3064-01-460 COIL FIX 2 FL12R202E 202K [V]

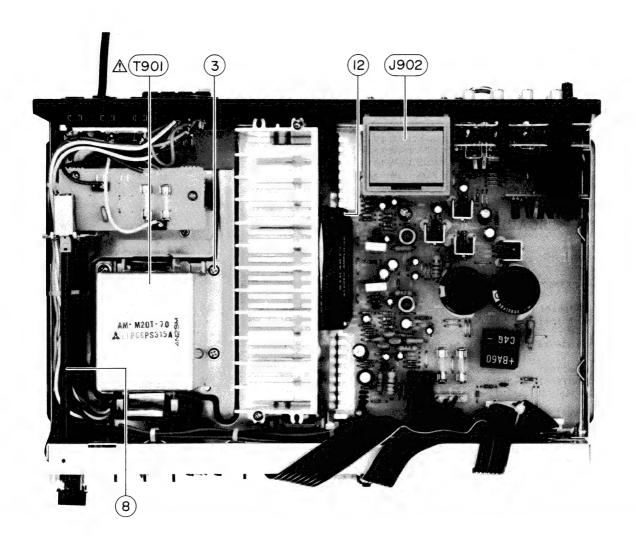
9. HEAD PHONE PC BOARD

REF. NO.	PART NO.	DESCRIPTION
9-SW201 9-L201 9-R201 9-J201	EO-336934 ER-358910	SW PUSH ESB62772 2-02-02S COIL FIX 1 LAL03KH 2R2M [V] R OMF H S15 FS 2W 181J PHONE J 2P HSJ0922-040 3.5 T

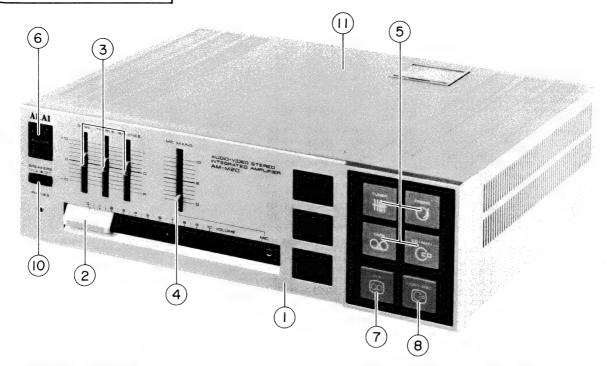
9-R201	ER-358910	R OMF H S15 FS 2W 181J
9-J201	EJ-349658	PHONE J 2P HSJ0922-040 3.5 T
10 D	NUED CIT	DC DC LD D
10. PC	JWER SW	PC BOARD
REF.	PART NO.	DESCRIPTION
NO.		DESCRIPTION
	DOWER CO.	DC DC LD-
		PC BOARD
10-SW1	ES-337902	△ SW PUSH SDLD1P002 01-1
10-L1	EO-338409	COIL LF FK0B160MH02 250UH [V]
	EC-320548	
10-C1B	EC-338411	△ C CE V FZ 103P 400AC [C,A]
10-C1C		△ C CE V FZ 472P 400AC [E,V,B,S]
		(, , , , ,
	ASSEMBLY	BLOCK
10-F1A	EF-306950	↑ FUSE TSC A 250V 2.00A [U]
10-F1B	EF-323080	⚠ FUSE TSC 125V 3.15A [C,A]
		⚠ FUSE SEMKO T2.00 A 250V [E,V,B,S]
10-F2		

ASSEMBLY BLOCK





FINAL ASSEMBLY BLOCK



11. ASSEMBLY BLOCK

REF. NO.	PART NO.	DESCRIPTION
11-1	SA-202118	FOOT
11-2	ZS-498273	T2BR30X08STL CMT PW080
11-3	ZS-346742	ST B1D40X08STL CMT CUP
11-4A	SP-356601E	PANEL REAR AM-M20 (U)
11-4B	SP-356601H	PANEL REAR AM-M20 (C,A)
11-4C	SP-356601F	PANEL REAR AM-M20 (E,V)
11-4D	SP-356601G	PANEL REAR AM-M20 (B,S)
11-5	ZS-308846	T2BR30X08STL BZN PROJECTION
11-6	EJ-329610	TERMINAL W/SCREW UB-0067 L 1P
11-7	ZS-351886	PT BR30X10STL BNI
11-8	MZ-356607	JOINT (C)
11-9A	EW-354515	⚠ AC CORD 2 CORES KP-700A,
		VFF-CB U/T [U]
11-9B	EW-349427	⚠ AC CORD 2 CORES KP-8W, SPT-
		2 UC [C]
11-9C	EW-349428	△ AC CORD 2 CORES KP-8W, SPT-
		1 UC [A]
11-9D	EW-358028	△ AC CORD 2 CORES KP-419C,
		LTCE-2F EV [E,V]
11-9E	EW-358029	△ AC CORD 2 CORES LTBS-2F-CB
		B [B]
11-9F	EW-358030	△ AC CORD 2 CORES KP-560,
11.10	D7	LTSA2F-CB S [S]
11-10	EZ-631945	STRAIN RELIEF SR-4N-4 [C,A]
11-11	EW-698308	RV NYL30X055 BL
11-12	ZS-321279	T2BR 30X 18STL CMT
11-13	EJ-348218	PLUG SHORT PIN P2138 A TRANS POWER AM-M20T-70 [U]
	BT-356636	
11-T901B 11-T901C		↑ TRANS POWER AM-M20T-30 [C]
		↑ TRANS POWER AM-M20T-20 [A]
	BT-356639 BT-356640	△ TRANS POWER AM-M20T-40 [E,V] △ TRANS POWER AM-M20T-50 [B,S]
11-1901E 11-SW901		△ SW SELECTOR YKS11-0002 02-4
11-SW 901	ES-3490 /0	[U]
11-J901A	EJ-337405	↑ SOCKET OUTLET S2T733T164
11- J 901A	EJ-33/403	JUC 3X2P [U]
11-J901B	EJ-352642	↑ SOCKET OUTLET S2T733T114T
11-39012	LJ-552042	[C,A]
11-P901	EJ-350918	PLUG CONNECTER M1690 12P
	EJ-356522	PLUG CONNECTER-B M1690-A 12P
11-J901B	EJ-350322 EJ-351021	SOCKET CONNECTER M1701 12P
11-J902 11-J902B	EJ-351021	SOCKET CONNECTER-B M1701-A 12P
_ 1 3 / 0 2 D		SCORET CONTIDETER D MIT / 01-A 121

12. FINAL ASSEMBLY BLOCK

REF. NO.	P PART NO.	DESCRIPTION
	PANEL FRONT B	LOCK
12-1	BD-A2036A050A	PANEL FRONT BLK AM-M20
12-1B	BD-A2036A050B	PANEL FRONT BLK AM-M20-B
12-2	SK-B356613	KNOB (C) PART
12-2B	SK-B356613B	KNOB (C)-B PART
12-3	SK-B356615	KNOB (D)-1 PART
12-4	SK-B356615B	KNOB (D)-2 PART
12-5	SK-356641B	KNOB OPERATION-S
12-5B	SK-356641C	KNOB OPERATION-B
12-6	SK-343017F	KNOB POWER-B
12-7	SK-356618Q	KNOB (A)-S VTR
12-7B	SK-357765E	KNOB (A)-B VTR
12-8	SK-356618R	KNOB (A)-S VIDEO DISK
12-8B	SK-357765F	KNOB (A)-B VIDEO DISK
	FINAL ASSEMBLY	Y BLOCK
12-9x	ZS-498273	T2BR30X08STL CMT PW080
		[PANEL FRONT FIX]
12-10	SK-356619B	KNOB (B)-S
12-11	SP-350869	COVER UPPER
12-11B	SP-350869E	COVER UPPER (C)-B
NOTE:	PANEL FRONT	BLK consists of 12-2, 12-3,
	12-4, 12-5, 12-6,	12-7,and 12-8.
CVM	DOL EOD COLO	D WADIATION
DIM	BOL FOR COLO	K VAKIATION

SYMBOL FOR COLOR VARIATION NON: STANDARD COLOR

B or BL: BLACK

INDEX

PART NO.	REF. NO	PART NO.	REF. NO	PART NO.	REF. NO.	PART	NO.	REF. NO.	PART	NO.	REF.	NO
BA-A2036A020A BA-A2036A020B		EJ-346651	2-J2 5-J2	SA-202118 SK-B356613	11-1							
BA-A2036A020C		EJ-356658 EO-336934	3-J2 2-L2	SK-B356613B								
BA-A2036A020D		EO-336934 EO-336934	2-L2 2-L3	SK-B356615								
BA-A2036A020E		EO-336934	4-L4	SK-B356615B								
BA-A2036A030A		EO-336934	4-L5	SK-343017F								
BA-A2036A030B		EO-336934	5-L6	SK-356618Q								
BA-A2036A040A			to L8	SK-356618R	12-8							
BA-A2036A040B	1-2B	EO-336934	9-L201	SK-356619B								
BD-A2036A050A	12-1	EO-337878	2-L201	SK-356641B	12-5							
BD-A2036A050B BT-356636		EO-338409 EO-338420	10-L1 2-L1		12-5B 12-7B							
	4 4 7700 0 4 70	EO-338420	8-L1		12-8B							
	11-T901C	EO-342936	7-L201	SP-350869	12-11							
	11-T901D	EQ-337159	2-RL201	SP-350869E	12-11B							
	11-T901E	ER-200746	2-R209	SP356601E	11-4A							
EC-320548	10-C1A	ER-200939	4-R1	SP-356601F	11-4C							
EC-326583	2-C225	ER-200939	4-R2	SP-356601G	11-4D							
EC-334012	2-C215	ER-200939	4-R8		11-4B							
EC-338411	10-C1B	ER-200939	4-R22	ZS-308846	11-5							
EC-338496	10-C1C	ER-316802	5-R71	ZS-321279 ZS-346742	11-12 11-3							
EC-343393 EC-343393	2-C219 2-C222	ER-322591 ER-322591	2-R243 2-R228	ZS-351886	11-3							
EC-344157	4-C10	ER-322591	2-R228 2-R231	ZS-498273	11-7							
ED-301911	2-D205	ER-322591	5-R56	ZS-498273	12-9x							
ED-301911	2-D201	ER-322591	5-R57	ZW-698308	11-11							
ED-301911	4-D1	ER-323075	2-R236									
	to D3	ER-323057	2-R229									
ED-301911	5-D5	ER-328082	2-R233									
ED-306320	2-D208	ER-328082	2-R226									
ED-306824	2-D211	ER-328278	2-FR27									
ED-329449	2-D207	ER-333067	2-R218									
ED-331198	4-D10	ER-337754	2-R214									
ED-337268	2-D204	ER-347610	2-R210									
ED-343996	2-D209	ER-347962	2-R222									
ED-344280 ED-344280	4-D4 4-D6	ER-349423	2-R208									
ED-344280	4-D6 to D9	ER-352651 ER-356747	2-R213 2-R224									
ED-346613	2-D210	ER-358022	2-R224 2-R225	1								
ED-348990	2-D210 2-D203	ER-358606	2-R223 2-R207									
ED-348990	2-D206	ER-358909	2-R206									
ED-348990	2-D202	ER-358910	9-R201									
ED-349656	3-D101	ER-658034	2-R232									
	to D104	ES-337902	10-SW1									
ED-349656	3-D106	ES-347966	3-SW105									
ED-349656	3-D105	ES-347966	3-SW 106									
ED-350748	2-D212	ES-349070	11-SW901									
EF-200952 EF-200952	2-F3A 2-F4A	ES-349474	3-SW101 to SW104	1								
EF-200952 EF-249851	2-F4A 2-F3C	ES-356631	9-SW201									
EF-249851	2-F4C	ET-200986	2-TR204									
EF-306950	10-F1A	ET-201800	2-TR210									
EF-306950	10-F2	ET-307195	2-TR201									
EF-323080	10-F1B	ET-308141	3-TR102									
EF-346115	2-F3B	ET-308141	4-TR6									
EF-346115	2-F4B	ET 200141	to TR12									
EF-601301 EI-337228	10-F1C 3-IC101	ET-308141	5-TR2 to TR5									
EI-337228 EI-337228	3-IC101 3-IC102	ET-308472	4-TR1									
EI-344764	4-IC1	ET-308472 ET-310148	2-TR205									
EI-349719	4-IC2	ET-310148	2-TR205									
EI-353852	5-IC7	ET-322598	2-TR206									
EI-354401	4-IC4	ET-322598	2-TR208									
EI-356652	2-IC201	ET-399081	3-TR101									
EI-356655 EI-356656	4-IC3 6-IC5	ET-353898	2-TR202									
EI-356656	6-IC5 6-IC6	ET-353898 ET-353899	2-TR203 2-TR209									
EJ-336636	11-6	EV-349402	3-VR101									
EJ-336905	2-J1	EV-349402 EV-349655	3-V R 101									
EJ-336905	2-J9	EV-356632	3-VR102									
EJ-337405	11-J901A	EV-356633	3-VR104									
EJ-348218	11-13	EV-356633	3-VR105									
EJ-349417	7-TM201		11-9B									
EJ-349658	9-J201	EW-349428	11-9C									
EJ-350918	11-P901	EW-354515	11-9A									
EJ-351021	11-J902	EW-358028	11-9D									
EJ-352642 EJ-356521	11-J901B	EW-358029	11-9E									
	11-J902B	EW-358030	11-9F 11-10	1								
EJ-356521	11-P901B	EZ-631945										

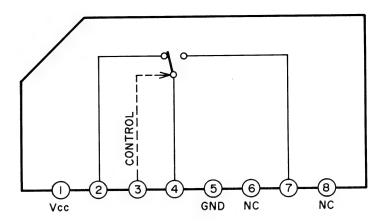
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MODEL AM-M20

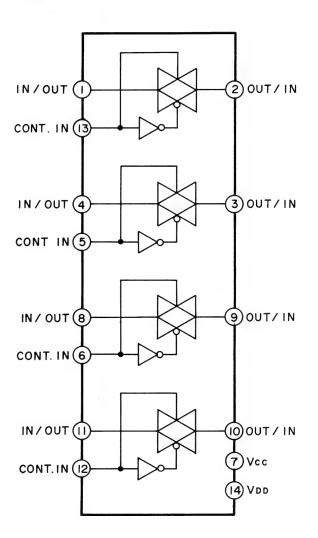
PC BOARDS SCHEMATIC DIAGRAM

1.	. BLOCK DIAGRAM OF IC's				
2.	. AM-M20 SCHEMATIC DIAGRAM				
3.	. MAIN PCB, SPEAKER PCB, HEADPHONE PCB, POWER SW PC	CB			
4	FUNCTION PCB. AUDIO PCB. VIDEO PCB. CONTROL PCB.				

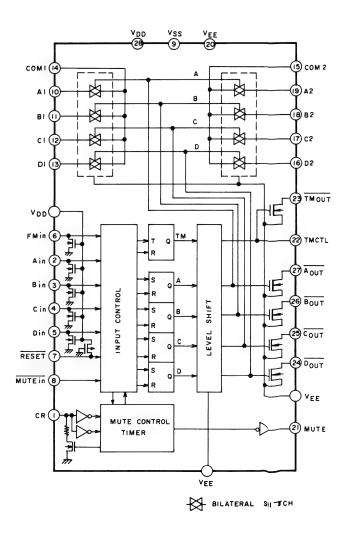
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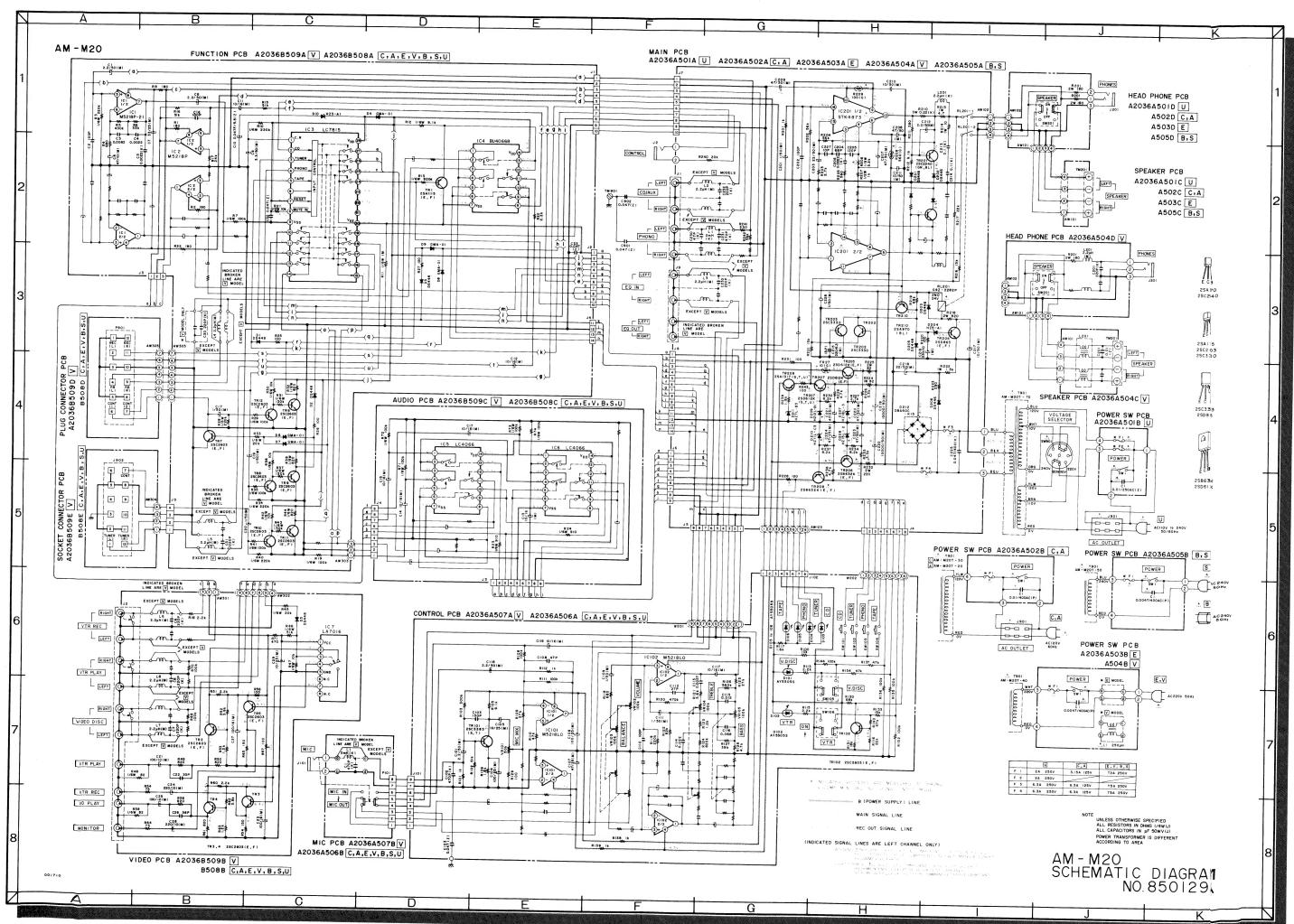


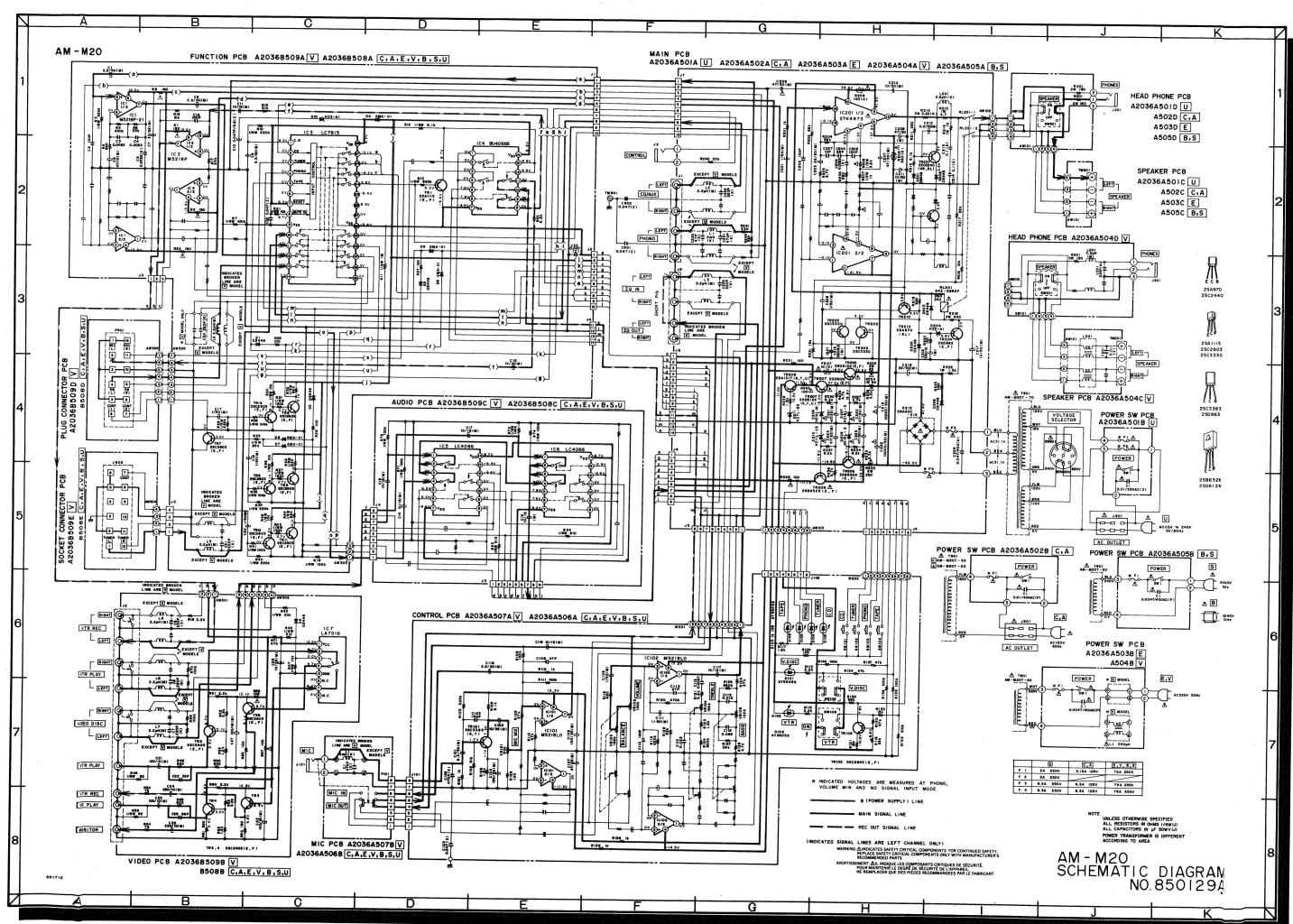
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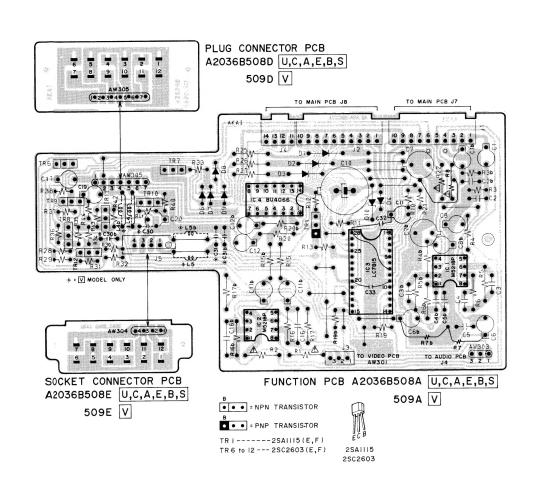


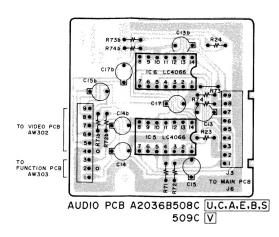
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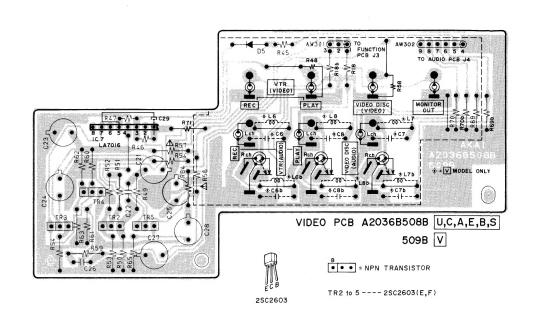






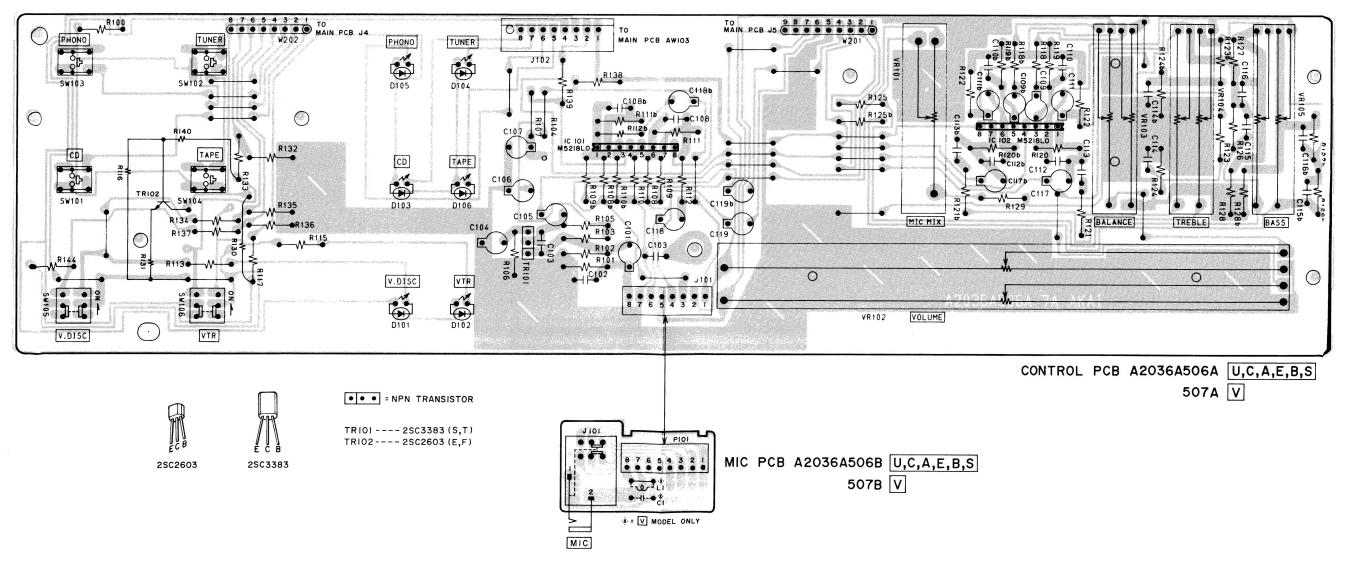


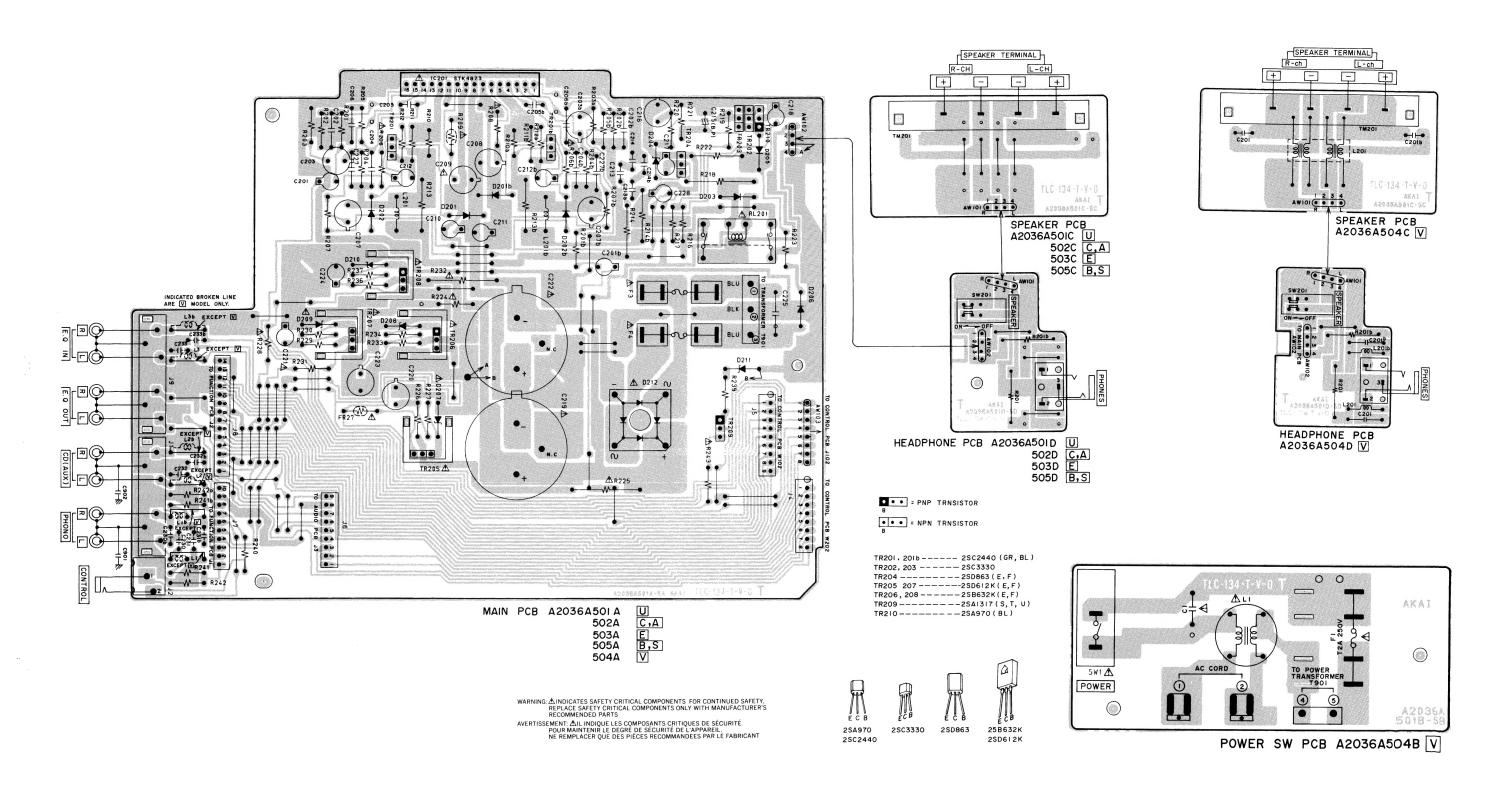


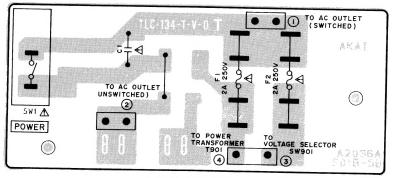


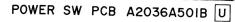
WARNING: ▲INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

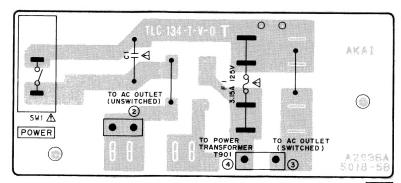
AVERTISSEMENT: ÂLI DIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMANDEES PAR LE FABRICANT



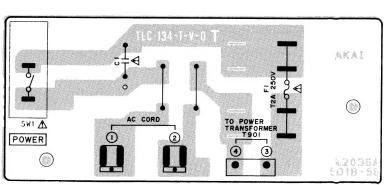








POWER SW PCB A2036A502B C,A



POWER SW PCB A2036A503B E

505B B,S